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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------------------|-------------------|----------------------|-------------------------|------------------|--|
| 10/046,805 | 01/14/2002 | Hyo-Jong Lee | 5649-968 | 6423 | |
| 20792 7 | 590 07/09/2003 | | | | |
| | EL SIBLEY & SAJOV | EXAMINER | | | |
| PO BOX 37428 RALEIGH, NO | | KILDAY, LISA A | | | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2829 | | |
| Ç | | | DATE MAILED: 07/09/2003 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

| ₽. | | Application No. | | Applicant(s) | - XI | | | |
|---|---|--|---|---|--------------|--|--|--|
| | | 10/046,805 | | LEE ET AL. | | | | |
| | Office Action Summary | Examiner | | Art Unit | | | | |
| | | Lisa A Kilday | | 2829 | | | | |
| Period fo | The MAILING DATE of this communication apport | | L | | 9SS | | | |
| THE I - External after - If the - If NO - Failu - Any r | ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, howeve ly within the statutory minim will apply and will expire SIX a, cause the application to be | r, may a reply be time um of thirty (30) days v ((6) MONTHS from th ecome ABANDONED | y filed will be considered timely. e mailing date of this comr (35 U.S.C. § 133). | nunication. | | | |
| 1)⊠ | Responsive to communication(s) filed on 06 | <u>June 2003</u> . | | • | | | | |
| 2a) 🗌 | This action is FINAL. 2b)⊠ Th | nis action is non-fina | ıl. | | | | | |
| 3)□ Dispositi | Since this application is in condition for allow closed in accordance with the practice under on of Claims | | | | merits is | | | |
| 4) 🖂 | Claim(s) 1-62 is/are pending in the application | n. | | | | | | |
| | 4a) Of the above claim(s) 14-33 and 42-59 is/are withdrawn from consideration. | | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ | Claim(s) <u>1-13,34-41 and 60-62</u> is/are rejected | | | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | | | |
| 8) | Claim(s) are subject to restriction and/o | or election requireme | ent. | | | | | |
| Applicati | on Papers | · | | | | | | |
| 9) 🗌 . | The specification is objected to by the Examine | er. | | | | | | |
| 10) 🔲 🤄 | The drawing(s) filed on is/are: a)□ acce | pted or b)□ objected | to by the Exam | iner. | | | | |
| | Applicant may not request that any objection to the | e drawing(s) be held i | n abeyance. See | e 37 CFR 1.85(a). | | | | |
| 11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner. | | | | | | | | |
| | If approved, corrected drawings are required in re | ply to this Office actio | n. | | | | | |
| 12) 🗌 🤄 | The oath or declaration is objected to by the Ex | kaminer. | | | | | | |
| Priority u | ınder 35 U.S.C. §§ 119 and 120 | | | | | | | |
| 13) | Acknowledgment is made of a claim for foreig | n priority under 35 L | J.S.C. § 119(a)- | (d) or (f). | | | | |
| • | ☐ All b)☐ Some * c)☐ None of: | | | ., ., | | | | |
| ,. | Certified copies of the priority document | ts have been receive | ed. | | | | | |
| | 2. Certified copies of the priority document | | | n No | | | | |
| | Copies of the certified copies of the prior application from the International But application from the Internation | rity documents have | e been received | | age | | | |
| * 8 | See the attached detailed Office action for a list | | | | | | | |
| 14) 🗌 A | cknowledgment is made of a claim for domest | ic priority under 35 (| U.S.C. § 119(e) | (to a provisional a | oplication). | | | |
| |) The translation of the foreign language process Acknowledgment is made of a claim for domest | * * | | | | | | |
| Attachmen | • | • | | | | | | |
| 2) Notic | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _ | 5) 🔲 N | | PTO-413) Paper No(s). Itent Application (PTO-1 | | | | |
| J.S. Patent and T PTO-326 (Re | | ction Summary | | Part of Paper No. 5 | · | | | |

Art Unit: 2829

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Election/Restrictions

Applicant's election of Group I and Species I (figs. 2-5) in Paper No. 4 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Double Patenting

Claims 1-13, 34-41, 60-62 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2, 4-10, 15-17, 25-28, 31-32 of U.S. Patent No. 6,432,820. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims have the same function as the conflicting claims, for example: '820 claims forming an interlayer dielectric layer pattern defining a hole region, and the instant specification is drawn to forming a recess. Both claim forming a barrier metal layer/electroplating mask that exposes the inner side walls of the hole region such that the side wall is free of the electroplating mask.

Conclusion

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0957. See MPEP 203.08.

Any inquiry concerning this communication from the examiner should be directed to Lisa Kilday whose telephone number is (703) 306-5728. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo, can be reached on (703) 308-1233. The fax number for the group is (703) 305-3432. MPEP 502.01 contains instructions regarding procedures used in submitting responses by facsimile transmission.

Lisa Kilday LAK 6/20/03

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800